

MAY 01 2009

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Simone Angiolini	Examiner:	KUNEMUND, Robert
Serial No.	10/552,199	Group Art Unit:	1792
Filed:	October 6, 2005	Docket No.	01028US01
Title:	OPTICAL FILMS COMPRISING ONE OR MORE POLYARYLATES OBTAINED FROM SPECIFIC PHENOLIC MOLECULES		

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**DECLARATION OF THE ATTORNEY OF RECORD UNDER 37 C.F.R. 1.132**

This Declaration of Mark A. Litman, the attorney of record, accompanies a communication filed in response to the Office Action mailed on January 8, 2009. There are no amendments to the claims or specification.

A Petition for extension of time accompanies this Declaration and Amendment.

Authorization is hereby given to charge any additional fees or credit any overpayments that may be deemed necessary to Deposit Account Number 50-1391.

**Declaration**

I, Mark A. Litman, do state and declare as follows:

1) I am the Mark A. Litman, Attorney's Registration No. 26,390 who is the attorney of record in the above identified application, herein the "Present Angiolini Application."

2) I have consulted with publicly available records and Patent liaison in Savonna, Italy to obtain the information stated and declared by me in this Declaration, and I have reviewed the file wrapper of original documents in my possession.

3) I believe the information stated and declared by me in this Declaration obtained from patent liaison and the assignee (Ferrania Technologies, S.p.A. or Ferrania S.p.A, its predecessor in name) to be reliable and accurate, as I have worked with this company and its predecessor companies for more than thirty (30) years.

4) I believe that the inventorship identified in both US Patent No. 6,632,212 or EP 1,205,772 (collectively and individually referred to herein as the Angiolini et al. Patent(s)) to Ferrania Technologies, S.p.A. is correct, and that there were four co-inventors on the subject matter claimed.

5) I believe that the two named inventors (all of the inventors) in the Present Angiolini Application and the Angiolini Patents are correctly named and identified as less than all of the four inventors in the Angiolini et al. Patents, and that all four inventors in the Angiolini et al. Patents and the two common in the present application inventors to that group of four inventors were employed by Ferrania Technologies, S.p.A. (or its legal predecessors) at the time of the inventions described therein and at the time of the filing of the applications resulting in the Present Angiolini Application and the Angiolini Patents.

6) Based on information and belief, I believe that the subject matter of the Present Angiolini Application that is included, but not claimed in the Angiolini Patents was invented by the inventors named in the Present Angiolini Application prior to the available reference date of the Angiolini Patents, Simone Angiolini and Mauro Adidano. That subject matter claimed in the present Application was disclosed, but not claimed in the Angiolini Patents.

7) As US Patent Counsel, I reviewed the drafting and filing of the application that resulted in US Patent No. 6,632,212 prior to its filing in the United States, I had copies of that application and drafts thereto prior to its filing, and those drafts contained the subject matter of the Present Angiolini Application that is included, but not claimed in the Angiolini Patents.

8) As part of my regular practice in filing U.S. Patent Applications, I either personally (or through local corporate patent counsel) make a determination of inventorship for **claimed** subject matter when filing U.S. Patent Applications, and in this present Application, in filing the PCT application with named inventors. It was the joint determination of local corporate patent counsel (Roberto Allaix) and myself that the subject matter of the present application was the invention of only the two named inventors, Simone Angiolini and Mauro Adidano, and not the entire set of four inventors named in the Angiolini Patents.


9) To that end, the present application was intentionally filed as a legal decision made by counsel, with less than all inventors from the Angiolini Patents, naming only those two inventors, Simone Angiolini and Mauro Adidano, determined to be the inventors of the claimed subject matter of the present application. Upon review of the previously allowed claims and the claims presently pending in the present application, that decision is reaffirmed.

10) The application filed in the U.S. that issued as U.S. Patent No. 6,632,886 was U.S. Serial No. 09/829,530, which was published as US Publication No. 2002/0091200, the second reference used in a rejection under 35 U.S.C. 103(a). All statements made

herein are also applicable to the Published application and are effective against that reference also.

11) As a result of these declared facts, I, Mark A. Litman believe that the Angiolini Patents and Angiolini Published US Application Document are not available as prior art against the Present Angiolini Application and the rejection under 35 USC 103(a) must be withdrawn.

Signed this 1st Day of May 2009

  
\_\_\_\_\_  
Mark A. Litman  
Registration No. 26,390

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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C08K 63/193

I-17014 Ferrania/Cairo Montenotte (IT). AVIDANO,  
Mauro [IT/IT]; Ferrania S.p.A., Viale della Libertà, 57;  
I-17014 Ferrania/Cairo Montenotte (IT).

(21) International Application Number:

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Property Department, Via Della Libertà, 57, I-17014 Fer-  
rancia/Cairo Montenotte (IT).

(22) International Filing Date: 5 April 2004 (05.04.2004)

(25) Filing Language: English

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(71) Applicant (for all designated States except US): FERRA-  
NTA S.P.A. [IT/IT]; Viale della Libertà, 57, I-17014 Fer-  
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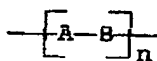
(72) Inventors; and

(75) Inventors/Applicants (for US only): ANGIOLINI,  
Simone [IT/IT]; Ferrania S.p.A., Viale della Libertà, 57,

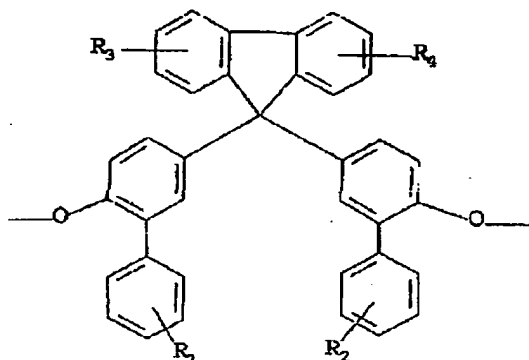
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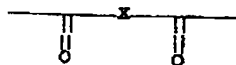
(54) Title: OPTICAL FILMS COMPRISING ONE OR MORE POLYARYLATES OBTAINED FROM SPECIFIC PHENOLIC  
MOLECULES



(A)



(I)



(II)

(57) Abstract: The present invention refers to an optical film comprising one or more polyarylates represented by the general structure: (a) where A represents one or more different bisphenolfluorene units having general formula (I): where R<sub>1</sub> and R<sub>2</sub> represent an hydrogen atom, an alkyl group, a halogen, an alkoxy group, an acyl group, a phenyl group or a nitrile group; R<sub>3</sub> and R<sub>4</sub> represent a hydrogen atom, an alkyl group, a halogen, an alkoxy group, an acyl group, a phenyl group, a nitro group, or a nitrile group; B represents one or more different dicarboxy groups having the formula (II): wherein X is a divalent hydrocarbon group having from 1 to 20 carbon atoms, and n is the number of the repeating units which build up the polymer and is a positive integer higher than 20. The optical film of the present invention has excellent mechanical and thermal properties, a high T<sub>g</sub> and is not subject to yellowing upon exposure to light sources.



US 20060257512A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2006/0257512 A1**

Angiolini et al.

(43) **Pub. Date: Nov. 16, 2006**(54) **OPTICAL FILMS COMPRISING ONE OR MORE POLYARYLATES OBTAINED FROM SPECIFIC PHENOLIC MOLECULES**(76) **Inventors:** Simone Angiolini, Montenotte (IT);  
Mauro Addiano, Montenotte (IT)

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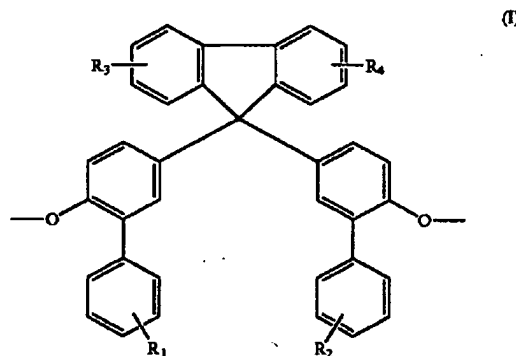
(21) **Appl. No.:** 10/552,199(22) **PCT Filed:** Apr. 5, 2004(86) **PCT No.:** PCT/EP04/03580(30) **Foreign Application Priority Data**

Apr. 11, 2003 (IT) ..... SV2003A000019

**Publication Classification**(51) **Int. CL**  
B39C 35/00 (2006.01)(52) **U.S. CL** ..... 425/45(57) **ABSTRACT**

The present invention refers to an optical film comprising one or more polyarylates represented by the general structure: (a) where A represents one or more different bisphenolfluorene units having general formula (1): where R<sub>1</sub> and

R<sub>2</sub> represent an hydrogen atom, an alkyl group, a halogen, an alkoxy group, an acyl group, a phenyl group or a nitrile group; R<sub>3</sub> and R<sub>4</sub> represent a hydrogen atom, an alkyl group, a halogen, an alkoxy group, an acyl group, a phenyl group, a nitro group, or a nitrile group; B represents one or more different dicarboxy groups having the formula (II): wherein X is a divalent hydrocarbon group having from 1 to 20 carbon atoms, and n is the number of the repeating units which build up the polymer and is a positive integer higher than 20. The optical film of the present invention has excellent mechanical and thermal properties, a high T<sub>g</sub> and is not subject to yellowing upon exposure to light sources.





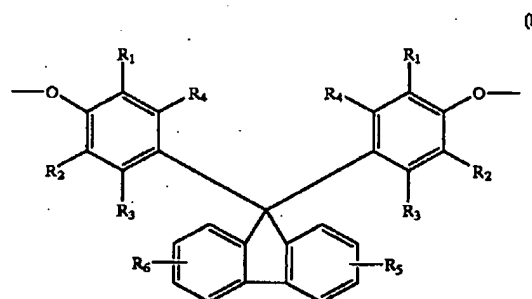
US 20020091200A1

(19) **United States**(12) **Patent Application Publication** (10) Pub. No.: **US 2002/0091200 A1**  
Angiolini et al. (43) Pub. Date: **Jul. 11, 2002**(54) **OPTICAL FILM COMPRISING  
POLYARYLATES CONTAINING  
BIS-(HYDROXYPHENYL)-FLUORENE-  
ORTHO-DISUBSTITUTED BISPHENOLS**(75) Inventors: **Simone Angiolini, Genova (IT); Mauro  
Avidano, Asti (IT); Paolo Salvarani,  
Savona (IT); Roberto Bracco, Savona  
(IT)**Correspondence Address:  
**MARK A: LITMAN & ASSOCIATES**  
York Business Center, Suite 205  
3209 West 76th Street  
Edina, MN 55435 (US)(73) Assignee: **FERRANIA S.p.A.**(21) Appl. No.: **09/829,530**(22) Filed: **Apr. 10, 2001**(30) **Foreign Application Priority Data**Nov. 14, 2000 (IT) ..... **SV2000A000053****Publication Classification**(51) Int. Cl.<sup>7</sup> ..... **C08L 27/12; C08F 283/02;  
C08G 73/24**(52) U.S. Cl. .... **525/199; 525/153; 525/328.6;  
525/330.7; 525/534; 525/539;  
528/125; 528/176; 528/191;  
528/401; 428/421; 428/423.7**(57) **ABSTRACT**

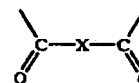
The present invention refers to an optical film comprising one or more polyarylates having at least some units represented by the general structure:



wherein A represents one or more different bisphenolfluorene radicals having the general formula (I):

wherein R<sub>1</sub> and R<sub>2</sub> independently represent an alkyl group, a halogen, an alkoxy group, an acyl group, a phenyl group or a nitrile group, with the proviso that R<sub>1</sub> and R<sub>2</sub> are not both an alkyl group; R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub> represent a hydrogen atom, an alkyl group, a halogen, an alkoxy group, an acyl group, a phenyl group, a nitro group, or a nitrile group;

B represents one or more different dicarboxy radicals having the formula:



wherein X is a divalent hydrocarbon group having from 1 to 20 carbon atoms, and n is the number of the repeating units which build up the polymer and is a positive integer higher than 20.

The optical film of the present invention has excellent mechanical and thermal properties, a high T<sub>g</sub> and does not readily yellow upon exposure to light.

US006632886B2

(12) **United States Patent**  
Angiolini et al.(10) Patent No.: **US 6,632,886 B2**  
(45) Date of Patent: **Oct. 14, 2003**(54) **OPTICAL FILM COMPRISING  
POLYARYLATES CONTAINING BIS-  
(HYDROXYPHENYL)-FLUORENE-ORTHO-  
DISUBSTITUTED BISPHENOLS**(75) Inventors: **Simone Angiolini, Genoa (IT); Mauro  
Avidano, Asti (IT); Paolo Salvarani,  
Savona (IT); Roberto Bracco, Savona  
(IT)**(73) Assignee: **Ferrania, S.p.A., Savona (IT)**(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.(21) Appl. No.: **09/829,530**(22) Filed: **Apr. 10, 2001**(65) **Prior Publication Data**

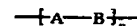
US 2002/0091200 A1 Jul. 11, 2002

(30) **Foreign Application Priority Data**

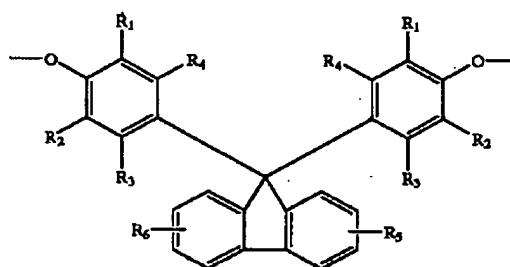
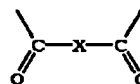
Nov. 14, 2000 (IT) ..... SV2000A0053

(51) Int. Cl.<sup>7</sup> ..... C08L 27/12; C08F 283/02;  
C08G 73/24(52) U.S. Cl. .... 525/199; 525/153; 525/328.6;  
525/330.7; 525/534; 525/539; 528/125;  
528/176; 528/191; 528/401; 428/421; 428/423.7(58) Field of Search ..... 525/199, 153,  
525/328.6, 330.7, 534, 539; 528/125, 176,  
191, 401; 428/421, 423.7(56) **References Cited****U.S. PATENT DOCUMENTS**4,810,771 A 3/1989 Teramoto et al.  
5,007,945 A 4/1991 Tien et al.  
5,232,471 A 8/1993 Chen et al. .... 55/16**FOREIGN PATENT DOCUMENTS**EP 0943640 9/1999  
EP 0 943 640 A1 9/1999 ..... C08G/63/193  
WO 0033949 6/2000**OTHER PUBLICATIONS**Abstract of Japanese Patent JP 09071640-A. Journal of  
Applied Polymer Science, vol. 29, pp. 35-43; (1984).

Primary Examiner—Duc Truong

(74) Attorney, Agent, or Firm—Mark A. Litman & Assoc.  
P.A.(57) **ABSTRACT**The present invention refers to an optical film comprising  
one or more polyarylates having at least some units repre-  
sented by the general structure:wherein A represents one or more different bisphenolfluo-  
rene radicals having the general formula (I):

(I)

wherein R<sub>1</sub> and R<sub>2</sub> independently represent an alkyl  
group, a halogen, an alkoxy group, an acyl group, a  
phenyl group or a nitrile group, with the proviso that R<sub>1</sub>  
and R<sub>2</sub> are not both an alkyl group; R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub>  
represent a hydrogen atom, an alkyl group, a halogen,  
an alkoxy group, an acyl group, a phenyl group, a nitro  
group, or a nitrile group;B represents one or more different dicarboxy radicals  
having the formula:wherein X is a divalent hydrocarbon group having from  
1 to 20 carbon atoms, and n is the number of the  
repeating units which build up the polymer and is a  
positive integer higher than 20.The optical film of the present invention has excellent  
mechanical and thermal properties, a high T<sub>g</sub> and does not  
readily yellow upon exposure to light.**25 Claims, No Drawings**